

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 15, 2003, 06:15:49 ; Search time 487 Seconds
(without alignments)

4863.435 Million cell updates/sec

Title: US-09-043-944-5

Perfect score: 1500

Sequence: 1 gtttaattaccacagtttga.....taaaaaaaaaaaaaaaaaaaaaa 1500

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1105431 seqs, 789497651 residues

Total number of hits satisfying chosen parameters: 2210862

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 75 summaries

Database : Published Applications_NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	248.2	16.5	1392	10	US-09-895-035-13
2	248.2	16.5	1404	10	US-09-754-949-3
3	248.2	16.5	2765	9	US-10-221-254-5
4	248.2	16.5	2765	10	US-09-785-474-1
5	248.2	16.5	2765	10	US-09-785-474-27
6	246.6	16.4	2765	10	US-09-785-474-29
7	246.6	16.4	2765	10	US-09-785-474-31
8	245	16.3	2765	10	US-09-785-474-3
9	224.2	14.9	1346	10	US-09-754-949-5
10	224.2	14.9	2236	9	US-10-221-254-7
11	224.2	14.9	2285	10	US-09-878-454A-25
12	87.6	5.8	469	10	US-09-895-035-6
13	87.6	5.8	816	10	US-09-895-035-2
14	83.2	5.5	562	9	US-09-918-995-28131
15	80.6	5.4	493	10	US-09-895-035-3
16	73.8	4.9	1362	9	US-09-938-842A-1045
17	72.4	4.8	356	10	US-09-895-035-5
18	69.8	4.7	121	9	US-09-818-875-4220
19	69.8	4.7	121	9	US-09-818-875-4221

ALIGNMENTS

RESULT 1

US-09-895-035-13

; Sequence 13, Application US/09895035

; Patent No. US2002008221A1

; GENERAL INFORMATION:

; APPLICANT: Patterson, Chandra

; APPLICANT: Murry, Lynn E.

; APPLICANT: Kaser, Matthew R.

; TITLE OF INVENTION: HUMAN PRESENILIN VARIANT

; FILE REFERENCE: PC-0047 CIP

; CURRENT APPLICATION NUMBER: US/09/895,035

; CURRENT FILING DATE: 2001-06-29

Sequence 4224, Ap
Sequence 4225, Ap
Sequence 4212, Ap
Sequence 4213, Ap
Sequence 4216, Ap
Sequence 4217, Ap
Sequence 8, Appli
Sequence 4, Appli
Sequence 4336, Ap
Sequence 4337, Ap
Sequence 4208, Ap
Sequence 4209, Ap
Sequence 4332, Ap
Sequence 4333, Ap
Sequence 4334, Ap
Sequence 454, App
Sequence 454, App
Sequence 4228, Ap
Sequence 4229, Ap
Sequence 9335, Ap
Sequence 21602, A
Sequence 4582, Ap
Sequence 8434, Ap
Sequence 11218, A
Sequence 10, Appl
Sequence 160, Appl
Sequence 1369, Ap
Sequence 4232, Ap
Sequence 4233, Ap
Sequence 4144, Ap
Sequence 4145, Ap
Sequence 4256, Ap
Sequence 4257, Ap
Sequence 4252, Ap
Sequence 4253, Ap
Sequence 4128, Ap
Sequence 4129, Ap
Sequence 4148, Ap
Sequence 4149, Ap
Sequence 2792, Ap
Sequence 2929, Ap
Sequence 14, Appl
Sequence 451, App
Sequence 4152, Ap
Sequence 4153, Ap
Sequence 4156, Ap
Sequence 4157, Ap
Sequence 4160, Ap
Sequence 4161, Ap
Sequence 4164, Ap
Sequence 4165, Ap
Sequence 4168, Ap
Sequence 4169, Ap
Sequence 4132, Ap
Sequence 4133, Ap
Sequence 4136, Ap
Sequence 4137, Ap

9 US-09-818-875-4224
121 9 US-09-818-875-4225
121 9 US-09-818-875-4212
121 9 US-09-818-875-4213
121 9 US-09-818-875-4216
121 9 US-09-818-875-4217
121 9 US-09-895-035-8
269 10 US-09-895-035-4
121 9 US-09-818-875-4336
121 9 US-09-818-875-4337
121 9 US-09-818-875-4208
121 9 US-09-818-875-4209
121 9 US-09-818-875-4332
121 9 US-09-818-875-4333
332 9 US-09-925-299-454
332 10 US-09-925-299-454
121 9 US-09-818-875-4228
121 9 US-09-818-875-4229
380 10 US-09-960-352-9335
198 10 US-09-864-761-21602
393 10 US-09-960-352-4582
600 9 US-10-198-846-8434
424 10 US-09-960-352-11218
315 10 US-09-895-035-10
9515 9 US-10-239-676-160
539 9 US-10-198-846-1369
121 9 US-09-818-875-4232
121 9 US-09-818-875-4233
121 9 US-09-818-875-4144
121 9 US-09-818-875-4145
121 9 US-09-818-875-4257
121 9 US-09-818-875-4252
121 9 US-09-818-875-4253
121 9 US-09-818-875-4128
121 9 US-09-818-875-4129
121 9 US-09-818-875-4148
121 9 US-09-818-875-4149
689 9 US-10-198-846-2792
424 9 US-10-198-846-2929
1320 10 US-09-770-445-14
425 10 US-09-834-975-451
121 9 US-09-818-875-4152
121 9 US-09-818-875-4153
121 9 US-09-818-875-4156
121 9 US-09-818-875-4157
121 9 US-09-818-875-4160
121 9 US-09-818-875-4161
121 9 US-09-818-875-4164
121 9 US-09-818-875-4165
121 9 US-09-818-875-4168
121 9 US-09-818-875-4169
121 9 US-09-818-875-4132
121 9 US-09-818-875-4133
121 9 US-09-818-875-4136
121 9 US-09-818-875-4137

QY	1139	GC	AAGCGTT-----CATCGTACTTTGACTGGAAACACGACTATCGCTTGTGTATGTGGCCA	1199
Db	1169	GT	AAGCGCTCAGCAACAGCCAGTGGAGACTGGACACACACATAGCTGTTCTGTAGCCA	1228
QY	1193	TT	CTTATACGGTCTCTGCTTCACTTCTGCTCGCTCGCCGCTTCTCAACAGAGCACTCCCGG	1252
Db	1229	TAT	TAATTGGTTTGTGCGCTTACATTTATTACTCTCTGCCATTTTCAAGAAAGCATTGCCAG	1288
QY	1253	CT	CTG-CAATTTCCATTTTCTCGGACTCAATTTTCTACTTTTGTATCCCGCTGGATCATCA	1311
Db	1289	CT	CTTCCAATCTCACTACCTTTGGCGTTGTTTCTACTTTGCCACAGATTATCTGTAC	1348
QY	1312	CCC	ATTCTGTACACAAGT	1330
Db	1349	AGC	TTTATGACCAATT	1367

RESULT 2

US-09-754-949-3

; Sequence 3, Application US/09754949
; Patent No. US2002001593A1
; GENERAL INFORMATION:
; APPLICANT: MCCARTHY, JUSTIN
; APPLICANT: CORDELL, BARBARA
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INHIBITORS OF
; TITLE OF INVENTION: NEURONAL DEGENERATION
; FILE REFERENCE: SCIOS.012A
; CURRENT APPLICATION NUMBER: US/09/754,949
; CURRENT FILING DATE: 2001-01-04
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1404
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-754-949-3

Query Match

16.5%; Score 248.2; DB 10; Length 1404;

Best Local Similarity 54.6%; Pred. No. 1.5e-52;

Matches 666; Conservative 0; Mismatches 513; Indels 40; Gaps 7;

QY	119	AAG	AGAAATGTTGTGGAAGCGGAGCTGAAATACGGAGCATCTCACGTTATTTCATC	178
Db	194	AAG	ATGAGGAAGAAGATGAGGAGCTGACATTGAAATATGGCGCAAGCATGTGATCATGC	253
QY	179	TAT	TGTGCCGCTGCTCACTATGCTCGTCTGGTTGTTTTTACGATGAACACGATTACGT	238
Db	254	TCT	TGTCCCTGTGACTCTCTGCGTGTGGTGGTTCGTTACCATTTAAGTCACTGAGCT	313
QY	239	TTT	TATGTCAAAACATGGAAGGCAATTACTATACATCCCTTTTGTCCGGAAACAGACA	298
Db	314	TTT	TATACCGGAAGGATG---GGCAGCTAATCTATATACCCCATTCACAGAAGATACCCGAGA	370
QY	299	GTA	TCTGTGAGAGGGGATTGATGTCACTTGGATGCTCGGAATGCTCTCGTCATCTTGTGCGTGGTCG	358
Db	371	CTG	TGGGCCAGAGAGCCCTGCACCTCAATCTGAAATGCTGCCATCATGATCAGTGTCTATG	430
QY	359	TTT	CTGATGACAGTTCTGCTGATTGTTTTTCTATAAATACAAAGTTTTTATAAGCTTATTCATG	418
Db	431	TTG	TCATGATCATCTCTCTGCTGGTCTCTGATATAAATACAGCTGCTATATAGCTCATGCTG	490

Db 1201 AAGCAGACAGAAAGGAGTC--ACAAGACACATGTTGCAGAGAATGATGGCGGTTCCAG 1258
QY 959 AAGTCGAATCGAATCGAATCTACAGCTTCAACGACACAAACCTCTGGAGTAGGGTGG 1018
Db 1259 TGAGGAATGGAGCCAGAGGACAGATCATCTAGGGCTCTATCGCTCTACACCTGAGTC 1318
QY 1019 AACGGAGCTAGCTGCTGAGAGACCAACTGTACAGAGCCCAATTTTCCAGGACACGAAG 1078
Db 1319 ACGAGCTGCTGCCAGGAATTTCCAGCAGTAT-----CCTCGCTGGTGAAGACC 1368
QY 1079 AGGAAGACAGAGGCTGTAACCTGCTGCGGAGCTTCAATTTCTACCTCTCTCTCTCTCG 1138
Db 1369 CAGAGGAAGGGAGTAAACCTTGGATGGAGATTTTCATTTCTACAGTCTTCTGTTG 1428
QY 1139 GCAAGGCTT-----CATCGTACTTTGACTGGAACAGACATCGCTTGTATGTGGCCA 1192
Db 1429 GTAAAGCTCAGCAACAGCCAGTGGAGCTGGAACACCAACCATAGCCTGTTTCGTAGCCA 1488
QY 1193 TCTTATCGGCTCTGCTTCACTCTTGTCTGCTGCGGCTTTCACAAAGGACCTCCCGG 1252
Db 1489 TATTAATGTTGCTGCTTACATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1548
QY 1253 CTCTG-CAATTTCAATTTCTCGGAGCTCAATTTTACTTTTGTACCGCTGGATCATCA 1311
Db 1549 CTCTCAATCTCCATCACCCTTTGGGCTTGTCTTCTACTTTGCCACAGATTAATCTGTAC 1608
QY 1312 CCCCATTTGTTACACAAGT 1330
Db 1609 AGCCTTTTATGGCAAT 1627

RESULT 4

US-09-785-474-1
; Sequence 1, Application US/09785474
; Patent No. US20010012626A1
; GENERAL INFORMATION:
; APPLICANT: TANZI, RUDOLPH
; TITLE OF INVENTION: Genetic Alterations Related To Familial
; Alzheimer's Disease
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO).
; CURRENT APPLICATION DATA:
; FILING DATE: 20-Feb-2001
; APPLICATION NUMBER: US/09/785,474
; CLASSIFICATION: <Unknown>
; PRIORITY INFORMATION:
; APPLICATION NUMBER: 08/706,344
; FILING DATE: 30-AUG-1996
; APPLICATION NUMBER: 60/003,054
; FILING DATE: 31-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KIM, JUDITH U.
; REGISTRATION NUMBER: 40,679
; REFERENCE/DOCKET NUMBER: 0609.4180002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2765 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 249..1649
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-785-474-1

Query Match 16.5%; Score 248.2; DB 10; Length 2765;
Best Local Similarity 54.6%; Pred. No. 2.2e-52;
Matches 666; Conservative 0; Mismatches 513; Indels 40; Gaps 7;

QY 119 AAGCAGAAATGTTGTGGAAGAGCGGAGCTGAATAACGGAGCATCTCACGTTATTTCATC 178
Db 442 AAGATGAGGAAGAAGATGAGGAGCTGACATTAATAATATGGCCCAAGCATGTGATCATGC 501
QY 179 TATTTGCGCGCTGCTCACTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 238
Db 502 TCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 561
QY 239 TTTATAGTCAAAACAATGGAAGGCAATTTACTATACATCTCTTGTCCGGGAAACAGACA 298
Db 562 TTTATACCCGGAAGATG---GGCAGCTAATCTATACCCCATTCACAGAGATACCCAGA 618
QY 299 GTATCGTTGAGAGGGATGATGTCACCTTGAATAAGTCTCTGCTGCTGCTGCTGCTGCTG 358
Db 619 CTGTGGCCAGAGAGCCCTGCACCTCAATTTCTGAATGCTGCCATCATGATGATGCTCAT 678
QY 359 TTCTGATGACAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 418
Db 679 TTGTCAATGACTATCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 738
QY 419 GATGGCTTATTTGTCAGCAGTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 478
Db 739 CTTGGCTTATATATATATATATATATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 798
QY 479 AACTCTGAAAGTTTTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 538
Db 799 AAGTGTGTTAAACCTATTAACGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 858
QY 539 ACTATGAGTCTCTCGGAATGATGATATACATTTGGAAGGCTCCATTTGCTGCTGCTGCT 598
Db 859 ATTTGCTGTTGGGAAATGATTTCCATTCACCTGGAAGGCTCCATTTGCTGCTGCTGCT 918
QY 599 TCTACCTTATTACAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 658
Db 919 CATATCTCATTTAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 978
QY 659 GGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 718
Db 979 GGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1038
QY 719 CAAAAGGACCATTTGAGATATTTGGTGAAGCTGCAAGAGAGAGAGAGAGAGAGAGAGAG 778
Db 1039 CGAAAGGCTCCATTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1098
QY 779 CGGCGCTGATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 838
Db 1099 CAGCTCTCATTTTACTCTCAACAAT-----GGTGGTGGTGGTGGTGGTGGTGGTGG 1145
QY 839 ACACGACAGACCCCGTGAACGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 898
Db 1146 GAAGGAGA-----CCCGAAGCTCAAGGAGAGATATCCAAAATTTCCAAAGATAATGC 1200
QY 899 GAGAGCGAGTGTGTTCACTGAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAAAC 958
Db 1201 AAGCAGAGAAAGGAGTCT--ACAGACACTGTTGACAGAGATGATGATGCGGGTTCAG 1258
QY 959 AAGTGCAAATCGAATCTACTACAGCTTCAACGACACACAAACTCTCGAGTAAGGGTGG 1018
Db 1259 TGAGGAATGGGAAGCCAGAGGACAGTCACTAGGCGCTCATCTAGGCTCTACCTCTGATC 1318

Db 1369 CAGAGGAAAGGGAGCTAAAGCTGGATGGAGAGATTTCAATTTCTACAGTGTCTCTGTTG 1428
 QY 1139 GCAAGGCTT-----CATCGTACTTTGACTGGAACAGCACTATCGCTTGTATGTGGCCA 1192
 Db 1429 GTAAAGCCTCAGCAACAGCCAGTGGAGACTGGACACACAAACATAGCCTGTTTCGTAGCCA 1488
 QY 1193 TTCATATGGGCTCTGCTTCACTCTTGCTGCTGCGGCTCTTCAAGAGCACTCCCGG 1252
 Db 1489 TATTAATGGTGTGCTTACATATTACTCTTGCATTTTCAAGAAAGCATGGCCAG 1548
 QY 1253 CTCG-CAATTTCCATTTTCCGCACTATTTTACTTTTGTACCCGCTGGATCAATCA 1311
 Db 1549 CTCCTCAATCTCCATCACCTTTGGGCTTGTCTTCTACTTTGGCACAGATTTATCTGTAC 1608
 QY 1312 CCCCATTTGTACACAAGT 1330
 Db 1609 AGCCTTTATGGACCAATT 1627

RESULT 6

US-09-785-474-29

: Sequence 29, Application US/09785474

: Patent No. US20010012626A1

: GENERAL INFORMATION:

: APPLICANT: TANZI, RUDOLPH

: WASCO, WILMA

: TITLE OF INVENTION: Genetic Alterations Related To Familial

: Alzheimer's Disease

: NUMBER OF SEQUENCES: 32

: CORRESPONDENCE ADDRESS:

: ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

: STREET: 1100 NEW YORK AVENUE, SUITE 600

: CITY: WASHINGTON

: STATE: DC

: COUNTRY: USA

: ZIP: 20005-3934

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/09/785,474

: FILING DATE: 20-Feb-2001

: CLASSIFICATION: <Unknown>

: PRIORITY INFORMATION:

: APPLICATION NUMBER: 08/706,344

: FILING DATE: 30-AUG-1996

: APPLICATION NUMBER: 60/003,054

: FILING DATE: 31-AUG-1995

: ATTORNEY/AGENT INFORMATION:

: NAME: KIM, JUDITH U.

: REGISTRATION NUMBER: 40,679

: REFERENCE/DOCKET NUMBER: 0609.4180002

: TELECOMMUNICATION INFORMATION:

: TELEPHONE: 202-371-2600

: TELEFAX: 202-371-2540

: INFORMATION FOR SEQ ID NO: 29:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 2765 base pairs

: TYPE: nucleic acid

: STRANDEDNESS: Double

: TOPOLOGY: linear

: MOLECULE TYPE: DNA (genomic)

: FEATURE:

: NAME/KEY: CDS

: LOCATION: 249..1649

: SEQUENCE DESCRIPTION: SEQ ID NO: 29:

US-09-785-474-29

Query Match

Best Local Similarity 54.6%; Score 246.6; DB 10; Length 2765;

Matches 665; Conservative 0; Mismatches 514; Indels 40; Gaps 7;

QY 119 AAGACGAAATGTTGTGAAGAGCGGAGCTGAATACGGAGCATCTCACGTTATTCAATC 178
 Db 442 AAGATGAGGAAGAAGATGAGGAGCTGACATTTGAAATATGGCGCCAAGCATGTATGC 501
 QY 179 TATTTGTGCCGCTGCTCACTATGCTATGCTGCTGTTGTTTACGATGAACACGATTACGT 238
 Db 502 TCTTTGTCCCTGCTCACTCTGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 561
 QY 239 TTTATAGTCAAAACAATGGAAGGCAATTTACTATACATCCATCTCTTTGTCGGGAAACAGACA 298
 Db 562 TTTATACCGGAAGGATG---GGCAGCTAATCTATACCCCATTCACAGAAGATACCGAGA 618
 QY 299 GTATCGTTGGAAGGAGGATGATGTCACCTTGGAAATGCTGCTGCTGCTGCTGCTGCTGCT 358
 Db 619 CTGTGGGCCAGAGAGCCCTGCACCTCAATTCGAATGCTGCCATCATGATGATGATGATG 678
 QY 359 TTCTGATGACAGTTCTGCTGATTTCTTCTATAAATAACAAGTTTTATAAGCTTATCATG 418
 Db 679 TTGTCATGACTATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 738
 QY 419 GATGGCTTATGTCAGCAGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 478
 Db 739 CCTGGCTTATATATCATCTCTATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 798
 QY 479 AAGTCTGAAAGTTTCGATGCTGCTCCAGCGCACATTTGGTTTTGTTGGAGTGGGTA 538
 Db 799 AAGTGTTTAAACCTATAACGTTGCTGTGGACTACATTTACTGTTGCACTCCTGATCTGGA 858
 QY 539 ACTATGGAGTTCTCGGAATGATGTATACATTTGAAAGGTCATTCGCTGCTGCAACAGT 598
 Db 859 ATTTTGTGTTGGGATGATTTCCATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 918
 QY 599 TCTACCTTATACATGCTGCACTAATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 658
 Db 919 CATATCTCATATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 978
 QY 659 GGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 718
 Db 979 GGAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1038
 QY 719 CAAAGGACCATTTGAGATATTTGCTGAAACTGCACAGGAGAGAAAGAGCAATTTTCC 778
 Db 1039 TGAAGGTCACATTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1098
 QY 779 CGCGCTGATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 838
 Db 1099 CAGCTCTCATTTTACTCTCTCAACAAT-----GGTGTGCTGCTGCTGCTGCTGCTGCTG 1145
 QY 839 ACACGACAGACCCCGTGAACCGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 898
 Db 1146 GAAGGAGA-----CCCGGAGCTCAAGGAGAGATATCCAAAATTTCCAAAGCATTAATG 1200
 QY 899 GAGAGCGAGTTGTTTCTATCTGAAAGCCGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 958
 Db 1201 AAAGCACAGAAAGGGAGTC--ACAACACACTGTTGAGAGAGATGATGAGCGGGTTCAG 1258
 QY 959 AAGTGCATATCGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1018
 Db 1259 TGAGGAATGGGAAGCCAGAGGAGGACATCTAGGCGCTCATGCTGCTGCTGCTGCTGCTGCTG 1318
 QY 1019 AACGGGAGCTAGCTGCTGAGAGACCACTGTACAAGACGCCAATTTTACAGGACGACGAAG 1078
 Db 1319 ACGAGCTGCTGCCAGGAATTTCCAGCACT-----ATCTCGCTGGTGGAGAAC 1368
 QY 1079 AGAAGAGAGAGGTTGTAACCTTGGTCTGCGGAGCTTCAATTTTCTACTCTGTTCTCTCTG 1138
 Db 1369 CAGAGGAAAGGGAGTAAAACTTTGGATTGGGAGATTTTCATTTTCTACAGTGTCTGCTGTTG 1428
 QY 1139 GCAAGGCTT-----CATCGTACTTTGACTGGAACAGCACTATCGCTTGTATGTGGCCA 1192
 Db 1429 GTAAAGCCTCAGCAACAGCCAGTGGAGACTGGACACACAAACCATAGCTGTTTCGTAGCCA 1488

Db 1549 CTCCTCAATCTCATCACCTTTGGGCTTGTCTTCTACTTTGCCACAGATTATCTGTAC 1608
Qy 1312 CCCCATTTGTACACAAGT 1330
Db 1609 AGCCTTTTATGGACCAATT 1627

RESULT 8

US-09-785-474-3

; Sequence 3, Application US/09785474

; Patent No. US20010012626A1

; GENERAL INFORMATION:

; APPLICANT: TANZI, RUDOLPH

; WASCO, WILMA

; TITLE OF INVENTION: Genetic Alterations Related To Familial

; Alzheimer's Disease

; NUMBER OF SEQUENCES: 32

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

; STREET: 1100 NEW YORK AVENUE, SUITE 600

; CITY: WASHINGTON

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/785,474

; FILING DATE: 20-Feb-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/706,344

; FILING DATE: 30-AUG-1996

; APPLICATION NUMBER: 60/003,054

; FILING DATE: 31-AUG-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KIM, JUDITH U.

; REGISTRATION NUMBER: 40,679

; REFERENCE/DOCKET NUMBER: 0609.4180002

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600

; TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2765 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 249..1649

; SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-785-474-3

Query Match

Best Local Similarity 16.3%; Score 245; DB 10; Length 2765;

Matches 664; Conservative 0; Mismatches 515; Indels 40; Gaps 7;

Qy 119 AGACGAATTTGTGGAGAGCGGAGCTGAATACGGAGCATCTCACGTTATTCATC 178
Db 442 AAGATGAGGAAGAAGATGAGGAGCTGACATTGAAATATGGCCCAAGCATGTGATCATC 501
Qy 179 TATTTGTCCGGTGTCACTATCGCTGCTGGTGTGTTTACGATGACAGGATTACGT 238
Db 502 TCTTTGTCCCTGTGACTCTGTCATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 561
Qy 239 TTTATAGTCAAAACAAATGGAAGGCAATTTTACATATACATCATCTTTTGTCCGGGAACAGACA 298
Db 562 TTTATACCGGAAGGATG--GGCAGCTAATCTATATACCCCATTCACAGAATACCGGAGA 618


```

1 1 1 1 1 1 1
1248 ACTCATCTG 1256

Db

RESULT 11
US-09-878-454A-25
; Sequence 25, Application US/09878454A
; Patent No. US20020064828A1
; GENERAL INFORMATION:
; APPLICANT: Montelro, et al.
; TITLE OF INVENTION: Method
; FILE REFERENCE: 4115-161
; CURRENT APPLICATION NUMBER: US/09/878,454A
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 60/210,939
; PRIOR FILING DATE: 2000-06-11
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 25
; LENGTH: 2285
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2137)..(2137)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2144)..(2144)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2152)..(2152)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2157)..(2157)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2160)..(2160)

```

```

; NAME/KEY: misc_feature
; LOCATION: (2163)..(2163)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2180)..(2180)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2203)..(2203)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2213)..(2213)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2216)..(2216)
; OTHER INFORMATION: n can be a, c, t or g
; NAME/KEY: misc_feature
; LOCATION: (2225)..(2225)
; OTHER INFORMATION: n can be a, c, t or g
US-09-878-454A-25

Query Match 14.9%; Score 224.2; DB 10; Length 2285;
Best Local Similarity 59.5%; Pred. No. 2.4e-46;
Matches 398; Conservative 0; Mismatches 288; Indels 3; Gaps 1;

```

Db	589	TGGAGGAGAGCTGACCTCAAAATCGGAGGAGCATGTCATCGCTGCTTTGTGCCGCG	648
QY	191	TGCTCACTATGATGGCTCTGGTGTGTTTACGATGAACAGATTACGTTTTATPAGTCAAA	250
Db	649	TCACTCTGTGATGATCGTGGTGGTAGCCACCATCAAGTCTGCGCTCTACACAGAGA	708
QY	251	ACAAATGGAAGCATTTTACTATCACATCCTTTGTCGGGGAACACAGACATGCTGTGAGA	310
Db	709	AGAAATGGA--CACGTCATCTACACGCCATCTACTGAGGACACACCCCTGGTGGGCCAGC	765

RESULT 17
US-09-895-035-5/c
; Sequence 5, Application US/09895035

```

; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4220
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens

```


; TITLE OF INVENTION: Stranded Oligonucleotides

; FILE REFERENCE: Napro-4

; CURRENT APPLICATION NUMBER: US/09/818,875

; CURRENT FILING DATE: 2001-03-27

; PRIOR APPLICATION NUMBER: US 60/192,176

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/192,179

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/208,538

; PRIOR FILING DATE: 2000-06-01

; PRIOR APPLICATION NUMBER: US 60/244,989

; PRIOR FILING DATE: 2000-10-30

; NUMBER OF SEQ ID NOS: 4385

; SOFTWARE: Friedman macro Napro4

; SEQ ID NO 4217

; LENGTH: 121

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-818-875-4217

Query Match 4.5%; Score 67.8; DB 9; Length 121;

Best Local Similarity 73.1%; Pred. No. 1.7e-07;

Matches 87; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 560 TGTGTATACATGGAAGTCCATTGCTGCTGCAACAGCTTCTACCTTATTACAAATGCTG 619

Db 121 TTTCATCTACTGGAAGTCCACTTGCAGCTCCAGGCGATATCTCATTTATGATG 62

QY 620 CACTAATGGCTGGCTTTTCAAGTACCTACCAAGTACGAGTGTGCTGTTGCTG 678

Db 61 CCCTCATGGCCCTGGTGTGTTTCAAGTACCTCCCTGAATGAGTGGCTGCTCATCTG 3

RESULT 26

US-09-895-035-8

; Sequence 8, Application US/09895035

; Patent No. US20020082211A1

; GENERAL INFORMATION:

; APPLICANT: Patterson, Chandra

; APPLICANT: Murry, Lynn E.

; APPLICANT: Kaser, Matthew R.

; TITLE OF INVENTION: HUMAN PRESENILIN VARIANT

; FILE REFERENCE: PC-0047 CIP

; CURRENT APPLICATION NUMBER: US/09/895,035

; PRIOR FILING DATE: 2001-06-29

; PRIOR APPLICATION NUMBER: 09/116,640

; PRIOR FILING DATE: 1998-07-16

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PERL Program

; SEQ ID NO 8

; LENGTH: 624

; TYPE: DNA

; ORGANISM: Canis familiaris

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. US20020082211A1 702764613H1

US-09-895-035-8

Query Match 4.0%; Score 60.6; DB 10; Length 624;

Best Local Similarity 54.2%; Pred. No. 3.1e-05;

Matches 123; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

QY 277 CCTTTTGTCCGGGAACACAGACAGATGCTGTGAGAGGGATTGATGCTACTTGGAAATGCT 336

Db 385 CCATTACCGAGGACACAGCCCTCTGTGGCCAGCGCTCCTCAACTCTGTGCTCAACACC 444

QY 337 CTCGTCATGTTGCGTGGCTGCTGTGATGACAGTCTCTGCTGATGTTTCTTCTATTAATAC 396

Db 445 CTCATCATCATGAGCGTCAATGTGGCCATGACCATCTTCTTGGTCGCTGTCTACAGTAC 504

QY 397 AAGTTTATTAAGCTTATTCATGATGGCTTTATTTGTCAGCAGTATTTCTTCTTTTCCCTA 456

Db 505 CGCTGCTACAAGTTTATTCATGCTGGTGTGATCATGTCATCTTGTATGCTCTGCTTCCT 564

QY 457 TTCACTACAATCTATGTGCAAGAAGTTTCTGAAAAAGTTTTCGATGTGTC 503

Db 565 TTCACCTATATCTACCTCGGGGAAGTCTTAAAGACCTACAACTGTCG 611

RESULT 27

US-09-895-035-4

; Sequence 4, Application US/09895035

; Patent No. US20020082211A1

; GENERAL INFORMATION:

; APPLICANT: Patterson, Chandra

; APPLICANT: Murry, Lynn E.

; APPLICANT: Kaser, Matthew R.

; TITLE OF INVENTION: HUMAN PRESENILIN VARIANT

; FILE REFERENCE: PC-0047 CIP

; CURRENT APPLICATION NUMBER: US/09/895,035

; CURRENT FILING DATE: 2001-06-29

; PRIOR APPLICATION NUMBER: 09/116,640

; PRIOR FILING DATE: 1998-07-16

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PERL Program

; SEQ ID NO 4

; LENGTH: 269

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. US20020082211A1 1353337H1

US-09-895-035-4

Query Match 4.0%; Score 60.4; DB 10; Length 269;

Best Local Similarity 55.7%; Pred. No. 2.1e-05;

Matches 137; Conservative 0; Mismatches 106; Indels 3; Gaps 1;

QY 119 AAGACGAAATGTTGTGGAAGAGCGAGCTGAAATACGAGGATCTCAGCTTATTCATC 178

Db 27 AAGATGAGGAAGAAGATGAGGAGCTGACATTTGAAATATGCGCAAGCATGTGATCATGC 86

QY 179 TATTTGTCCGGTGTCTACTATGCTGCTGCTGTTTTCAGTATCAACACGATACGT 238

Db 87 TCFTTGTCCCTGTGACTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 146

QY 239 TTTATAGTCAAAACAAATGGAAGGATTTACTATCATCATCTCTTTCGCGGAAACACACA 298

Db 147 TTTATACCGGAAGGATG---GGCAGCTAATCTATACCCCATTCACAGAGATACCGAGA 203

QY 299 GTATCGTTGAGAAGGATGATGCTACTTGGAAATGCTCTGTCATGTTGCTGCTGCTGCTG 358

Db 204 CTGTGGCCAGAGAGCCCTGCACCTCAATTCTGAATGCTGCCATCATGATCATGCTGCTGCTG 263

QY 359 TTCTGA 364

Db 264 TTGTCA 269

RESULT 28

US-09-818-875-4336

; Sequence 4336, Application US/09818875

; Publication No. US20030051270A1

; GENERAL INFORMATION:

; APPLICANT: Kmiec, Eric B.

; APPLICANT: Gamper, Howard B.

; APPLICANT: Rice, Michael C.

; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single

; FILE REFERENCE: Napro-4

; CURRENT APPLICATION NUMBER: US/09/818,875

; CURRENT FILING DATE: 2001-03-27

; PRIOR APPLICATION NUMBER: US 60/192,176

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/192,179

; PRIOR FILING DATE: 2000-03-27

QY 596 AGTCTACCTATTACAATGCTGCACATAAAGTGCTGTGGTCTTTATCAA 644
II II II IIII II III IIII IIII IIII IIII IIII

Db 49 AGGCATATCTCATTATGATTAGTCGCCCTCATGGCCCTGGTGTATTATCAA 1

RESULT 32

US-09-818-875-4332

; Sequence 4332, Application US/09818875

; Publication No. US20030051270A1

; GENERAL INFORMATION:

; APPLICANT: Kmiec, Eric B.

; APPLICANT: Gamper, Howard B.

; APPLICANT: Rice, Michael C.

; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single

; TITLE OF INVENTION: Stranded Oligonucleotides

; FILE REFERENCE: Napro-4

; CURRENT APPLICATION NUMBER: US/09/818,875

; CURRENT FILING DATE: 2001-03-27

; PRIOR APPLICATION NUMBER: US 60/192,176

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/192,179

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/208,538

; PRIOR FILING DATE: 2000-06-01

; PRIOR APPLICATION NUMBER: US 60/244,989

; PRIOR FILING DATE: 2000-10-30

; NUMBER OF SEQ ID NOS: 4385

; SOFTWARE: Friedman macro Napro4

; SEQ ID NO 4332

; LENGTH: 121

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-818-875-4332

Query Match 3.9%; Score 59.2; DB 9; Length 121;

Best Local Similarity 68.3%; Pred. No. 2.6e-05;

Matches 82; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 568 CATGTGAAGGCGCATTTGCGTCTGCAACACTTCTACCTATTATTACAATGCTGTGCACATAAG 627
II IIII II IIII IIII IIII IIII IIII IIII IIII IIII IIII

Db 2 CACTGGAAGGGCCCTCTGGTGTGCGAGCGCCCTACCCTCATCATGATGATCATGGCGCTCATG 61
II IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII

QY 628 GCCTCTGGCTTTTAAAGTAGACCTACCCAGAAATGACACTGCTGTGGTTGTGCTGTTGTTATC 687
II II II IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII

Db 62 GCCCTAGTGTTCATCAAGTAGTAACCTCCCAGAGTGGTCCGCGTGGGTGCATCCTTGGGGCCCATC 121
II II II IIII IIII IIII IIII IIII IIII IIII IIII IIII IIII

RESULT 33

US-09-818-875-4333/C

; Sequence 4333, Application US/09818875

; Publication No. US20030051270A1

; GENERAL INFORMATION:

; APPLICANT: Kmiec, Eric B.

; APPLICANT: Gamper, Howard B.

; APPLICANT: Rice, Michael C.

; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single

; TITLE OF INVENTION: Stranded Oligonucleotides

; FILE REFERENCE: Napro-4

; CURRENT APPLICATION NUMBER: US/09/818,875

; CURRENT FILING DATE: 2001-03-27

; PRIOR APPLICATION NUMBER: US 60/192,176

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/192,179

; PRIOR FILING DATE: 2000-03-27

; PRIOR APPLICATION NUMBER: US 60/208,538

; PRIOR FILING DATE: 2000-06-01

; PRIOR APPLICATION NUMBER: US 60/244,989

; PRIOR FILING DATE: 2000-10-30

; NUMBER OF SEQ ID NOS: 4385

; SOFTWARE: Friedman macro Napro4

; SEQ ID NO 4333

; LENGTH: 121

; TYPE: DNA

;; PRIOR FILING DATE: 2000-03-08
;; PRIOR APPLICATION NUMBER: 60/124,270
;; PRIOR FILING DATE: 1999-03-12
;; NUMBER OF SEQ ID NOS: 1556
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 454
;; LENGTH: 332
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (95)
;; OTHER INFORMATION: n equals a,t,g, or c
;; NAME/KEY: misc_feature
;; LOCATION: (332)
;; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-299-454

Query Match 3.7%; Score 54.8; DB 10; Length 332;
Best Local Similarity 63.4%; Pred. No. 0.00063;
Matches 83; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 667 TGGTTTGGCTGTTGTTTCTCTCTGTTGGGATCTGTTGCCGTCACACCAAAAGGA 726
Db 1 TGGCTCATCTGGCTGTGATTCAGTATATGATTAGTGGCTGTTTGTCTCCAAAGGT 60
QY 727 CCATTGAGATATTGGTGGAACTGCACAGAGAGAACGACCAATTTCCGGCGCTG 786
Db 61 CCACTTCGTATGCTGGTTGAACAGCTCAGAGANAATGAAACGCTTTTCCAGCTCTC 120
QY 787 ATTTATTCGTC 797
Db 121 ATTACTCCTC 131

RESULT 36
US-09-818-875-4228
; Sequence 4228, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Stranded Oligonucleotides
; CURRENT APPLICATION NUMBER: US/09/818,875
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4228
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4228

Query Match 3.5%; Score 51.8; DB 9; Length 121;
Best Local Similarity 71.6%; Pred. No. 0.002;
Matches 68; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
QY 605 TTATTACAATCTGCACTAATGGCTCTGCTCTTTATCAAGTACCTACCAAGATGGACTG 664
Db 1 TCATTATGATTAGTCCCTCATGGCCCTGTTTATCAAGTACCTCCCTCAATGGACTG 60
QY 665 TGTGGTTTGTCTGTTTGTATCTCGGTTGGGAT 699

Db 61 CGTGGCTCATCTTGGCTGTGATTTCAGTATATGGT 95

RESULT 37
US-09-818-875-4229/c
; Sequence 4229, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Stranded Oligonucleotides
; CURRENT APPLICATION NUMBER: US/09/818,875
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4229
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4229

Query Match 3.5%; Score 51.8; DB 9; Length 121;
Best Local Similarity 71.6%; Pred. No. 0.002;
Matches 68; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
QY 605 TTATTACAATCTGCACTAATGGCTCTGCTCTTTATCAAGTACCTACCAAGATGGACTG 664
Db 121 TCATTATGATTAGTCCCTCATGGCCCTGTTTATCAAGTACCTCCCTCAATGGACTG 62
QY 665 TGTGGTTTGTCTGTTTGTATCTCGGTTGGGAT 699
Db 61 CGTGGCTCATCTTGGCTGTGATTTCAGTATATGGT 27

RESULT 38
US-09-960-352-9335/c
; Sequence 9335, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 9335
; LENGTH: 380
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 40-LIB3058-035-Q1-K1-B8
US-09-960-352-9335

Query Match 3.4%; Score 50.6; DB 10; Length 380;
Best Local Similarity 53.9%; Pred. No. 0.0079;
Matches 104; Conservative 0; Mismatches 89; Indels 0; Gaps 0;
QY 1308 ATCACCCCATTTGTTTACACAGTCTCTCAAAAGTGTATTATATATATATATCTCTGTTTTT 1367

Db 226 ATTATAAAATTTTTTTTTTTTTTTTAAATATATATTTTTTAAATAATTTTAAATAA 284

RESULT 41

US-10-198-846-8434/c
; Sequence 8434, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE OF INVENTION: THERAPY OF BREAST CANCER
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8434
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; LOCATION: 2, 14, 27, 61, 150, 153, 156, 159, 160, 218, 222, 226, 227,
; LOCATION: 229, 230, 232, 234, 236, 288, 289, 290, 291, 292, 316, 319,
; LOCATION: 323, 324, 325, 326, 328, 330, 331, 332, 333, 334, 340, 345,
; LOCATION: 346, 349, 350, 351, 352, 368, 369, 370, 371, 372, 373
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 374, 375, 376, 377, 379, 381, 393, 395, 396, 397, 399, 400,
; LOCATION: 401, 402, 403, 404, 406, 408, 411, 422, 423, 424, 425, 426,
; LOCATION: 427, 435, 436, 437, 444, 445, 447, 448, 449, 469, 472, 473,
; LOCATION: 478, 479, 480, 481, 483, 497, 502, 505, 506, 514, 517
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 518, 519, 520, 521, 522, 524, 526, 527, 528, 533, 534, 535,
; LOCATION: 536, 537, 538, 541, 559, 561, 562, 563, 564, 567, 568, 569,
; LOCATION: 570, 575, 589, 590, 592, 594, 598, 599
; OTHER INFORMATION: n = A,T,C or G

US-10-198-846-8434

Query Match 3.3%; Score 50; DB 9; Length 600;
Best Local Similarity 44.6%; Pred. No. 0.015;
Matches 107; Conservative 0; Mismatches 133; Indels 0; Gaps 0;

QY 1261 TTTCATTTCTCCGACTCATTTTACTTTTGTACCCGCTGGATCATCACCCTTTG 1320
||| |||| | |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
Db 367 TTTTATTTTCTTTNNCCNNNTCTTTTNNNNNTNTNNNNCCNCCNCCNCC 308
QY 1321 TTACACAGTCTCTCAAAAGTGTATTATATTAATCTCTGTTTGGCATTCCTTGC 1380
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 307 CCCCCCCCCCCCCNNNTCTTTTNNNNNTNTNNNNCCNCCNCCNCCNCC 248
QY 1381 ATCATCACTTTTCATATATCTTGGAGGATCTCAAGCTTATTTATACATCTATT 1440
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 247 TTTCCCCCCCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCC 188
QY 1441 ATTTTGAACCTTGTTCATTTAAGTTATATATTAATTAATTAATTAATTAATTA 1500
||||| |||| | |||| | |||| | |||| | |||| | |||| | |||| | |||| | ||||
Db 187 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 128

RESULT 42

US-09-960-352-11218/c
; Sequence 11218, Application US/09960352
; Patent No. US20020137139A1

; GENERAL INFORMATION:

; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 11218
; LENGTH: 424
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 48-LJB3058-026-Q1-K1-D12
US-09-960-352-11218

Query Match 3.3%; Score 49.6; DB 10; Length 424;
Best Local Similarity 50.4%; Pred. No. 0.015;
Matches 121; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

QY 1261 TTTCATTTCTCCGACTCATTTTACTTTTGTACCCGCTGGATCATCACCCTTTG 1320
||| |||| | |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
Db 314 TTTTATATTAATTAATTTCTTTTAAATTTTCAATTTTCTTTTAAATATATCTC 255
QY 1321 TTACACAGTCTCTCAAAAGTGTATTATATTAATTAATTAATTAATTAATTAATTA 1380
|| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 254 TTTTATTTTATTTTAAATTTCCCTATAATATTTTATATTTTAAACAATATTT 195
QY 1381 ATCATCACTTTTCGATTAATCTGTGCGATCTCAAGCTTTTATTTATACATCTATT 1440
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 194 AAAATTTTAAATTTATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT 135
QY 1441 ATTTTGAACCTTTGTCTAATTTAAGTTATATAATTAATTAATTAATTAATTAATTA 1500
||||| |||| | |||| | |||| | |||| | |||| | |||| | |||| | |||| | ||||
Db 134 TATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 75

RESULT 43

US-09-895-035-10
; Sequence 10, Application US/09895035
; Patent No. US20020082211A1
; GENERAL INFORMATION:
; APPLICANT: Patterson, Chandra
; APPLICANT: Murry, Lynn E.
; APPLICANT: Kaser, Matthew R.
; TITLE OF INVENTION: HUMAN PRESENILIN VARIANT
; FILE REFERENCE: PC-0047 CIP
; CURRENT APPLICATION NUMBER: US/09/895,035
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/116,640
; PRIOR FILING DATE: 1998-07-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PERL Program
; SEQ ID NO 10
; LENGTH: 315
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020082211A1 701725602H1
US-09-895-035-10

Query Match 3.3%; Score 49.4; DB 10; Length 315;
Best Local Similarity 58.5%; Pred. No. 0.014;
Matches 86; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 116 AAGAAGACGAAATTTTGTGAAGAGCGAGCTGAAATACGAGCATCTACGTTATTC 175
|| |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 147 AACAGATGAGGAGGAGACGAGCTGACATTTGAATATGGACCAAGCAGCATCA 206
|| |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 176 ATCTATTTGTCCGGTGTCACTATCATCTGGTCTGTTTATAGTAGAACACGATTA 235

Db 207 TGCTTTGTTCTGTGACCTCTGCATGTCGTGTGGGCGCCACCATCAAGTCACTCA 266
QY 236 CGTTTATAGTCAAAACAATGGAAGGC 262
Db 267 GCTTCTACACCGGAGGATGGGCAGC 293

RESULT 44

US-10-239-676-160
; Sequence 160, Application US/10239676
; Publication No. US20030082609A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
; FILE REFERENCE: 5013.1003
; CURRENT APPLICATION NUMBER: US/10/239,676
; CURRENT FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: PCT/EP01/03968
; DE 10019058.8
; DE 10019173.8
; DE 10032529.7
; DE 10043826.1
; PRIOR FILING DATE: 2001-04-06
; 2000-04-06
; 2000-04-07
; 2000-06-30
; 2000-09-01
; NUMBER OF SEQ ID NOS: 228
; SEQ ID NO 160
; LENGTH: 9515
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-239-676-160

Query Match 3.3%; Score 49.2; DB 9; Length 9515;
Best Local Similarity 51.4%; Pred. No. 0.13;
Matches 114; Conservative 0; Mismatches 108; Indels 0; Gaps 0;
QY 1272 TCGGACTCATTTTTTACITTTTGTACCCCGCTGGATCATCACCCCATTTGTACACAAGTC 1331
Db 2377 TCGGGATTTGTTTTTGTAGTAGAGAAATTTAGGTAGATAGGATTTATTTGTAATATTTT 2436
QY 1332 TCTCAAAGTGTATTATATTAATCTCTGTTTTGCCATTTCTTTTGCATCATCAACTT 1391
Db 2437 TTTTGTGTTGTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 2496
QY 1392 TTCGATTATATCTTGAGCGATCTCAAGCTTTTATTTATACATCTTATTTTATTTTGAAC 1451
Db 2497 TTTTGTGTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 2556
QY 1452 TTGTCAATTAAGTATATAAATTTATTAATAAAAAA 1493
Db 2557 TTTTGTGTTTATTTATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 2598

RESULT 45

US-10-198-846-1369/C
; Sequence 1369, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049

; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1369
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2, 3, 4, 8, 14, 25, 113, 117, 118, 121, 123, 125, 127, 129,
; LOCATION: 130, 134, 135, 142, 145, 152, 155, 156, 164, 167, 169, 189,
; LOCATION: 190, 201, 202, 211, 238, 239, 270, 271, 292, 295, 302, 303,
; LOCATION: 306, 314, 315, 321, 339, 346, 349, 359, 374, 388, 395
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 396, 410, 414, 430, 432, 435, 439, 440, 442, 443, 447, 448,
; LOCATION: 453, 473, 476, 480, 482, 486, 487, 493, 495, 500, 501, 510,
; LOCATION: 530
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-1369
Query Match 3.3%; Score 48.8; DB 9; Length 539;
Best Local Similarity 48.4%; Pred. No. 0.028;
Matches 89; Conservative 0; Mismatches 95; Indels 0; Gaps 0;
QY 1317 TTGTTACACAGCTCTCTCAAAAGTGTATTATTAATTAATCTCTGTTTGGCATTTCT 1376
Db 282 TTTTNTTNNNTTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 223
QY 1377 TTGCATCATCAACTTTTCGATTATATCTTCGAGCGATCTCAAGCTTTATTTTACATAC 1436
Db 222 TTTTNTTNNNTTTTNNNAATTTTNTTNNNTTTTNTTNNNTTTTNTTNNNTTTNT 163
QY 1437 ATTATTTTGAACCTTTGTCATTAAAGTTATATAATAATAATTTATTAATAAAAAA 1496
Db 162 TTTTNTTNTTTCCTTNNATTTAANNAANNTNANTNANTNANTNANTNANTNANTNANT 103
QY 1497 AAAA 1500
Db 102 CAAA 99
RESULT 46
US-09-818-875-4232
; Sequence 4232, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4232
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-818-875-4232

Query Match 3.2%; Score 48.4; DB 9; Length 121;
Best Local Similarity 74.4%; Pred. No. 0.014; 21; Indels 0; Gaps 0;
Matches 61; Conservative 0; Mismatches 21;

QY 618 TGCCTAATGCTCTGGTCTTTATCAAGTACCTACCAAGATGGACTGTGTGGTTGTGCT 677
DB 2 TGCCTCATGCGCCCTGGTGTATCAAGTACCTCCCTCAAGTGGACTGGTGGCTCATCTT 61
QY 678 GTTTGTATCTCGGTTTGGGAT 699
DB 62 GCCTGATTCAGTATATGCT 83

RESULT 47

US-09-818-875-4233/C
; Sequence 4233, Application US/09818875
; Publication No. US20030051270A1

; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27

; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-06-01
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4233
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4233

Query Match 3.2%; Score 48.4; DB 9; Length 121;
Best Local Similarity 74.4%; Pred. No. 0.014;
Matches 61; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 618 TGCCTAATGCTCTGGTCTTTATCAAGTACCTACCAAGATGGACTGTGTGGTTGTGCT 677
DB 120 TGCCTCATGCGCCCTGGTGTATCAAGTACCTCCCTCAAGTGGACTGGTGGCTCATCTT 61
QY 678 GTTTGTATCTCGGTTTGGGAT 699
DB 60 GCCTGATTCAGTATATGCT 39

RESULT 48

US-09-818-875-4144
; Sequence 4144, Application US/09818875
; Publication No. US20030051270A1

; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179

; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4144
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4144

Query Match 3.2%; Score 47.6; DB 9; Length 121;
Best Local Similarity 62.7%; Pred. No. 0.023;
Matches 74; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 295 GACAGTATCGTTGAGAAGGATTCATGCTCACTTGGAAATGCTCTCGTCATGTTGTGGGTG 354
DB 1 GAGACTGTGGCCAGAGAGCCCTGCACCTCAATTCGAATGCTGCCATCATCATCAGTGTG 60
QY 355 GTCGTTCTGATGACAGTTCCTGCTGATTGTTTTCTATAAATACAAAGTTTTTATAAGCTTA 412
DB 61 ATTGTTGTCATGACTATCTCTCTGGTGGTCTGTATAAATACAGGCTCTATAAGGTGA 118

RESULT 49

US-09-818-875-4145/C
; Sequence 4145, Application US/09818875
; Publication No. US20030051270A1

; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27

; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4145
; LENGTH: 121
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4145

Query Match 3.2%; Score 47.6; DB 9; Length 121;
Best Local Similarity 62.7%; Pred. No. 0.023;
Matches 74; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 295 GACAGTATCGTTGAGAAGGATTCATGCTCACTTGGAAATGCTCTCGTCATGTTGTGGGTG 354
DB 121 GAGACTGTGGCCAGAGAGCCCTGCACCTCAATTCGAATGCTGCCATCATCATCAGTGTG 62
QY 355 GTCGTTCTGATGACAGTTCCTGCTGATTGTTTTCTATAAATACAAAGTTTTTATAAGCTTA 412
DB 61 ATTGTTGTCATGACTATCTCTCTGGTGGTCTGTATAAATACAGGCTCTATAAGGTGA 4

RESULT 50

US-09-818-875-4256
; Sequence 4256, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:


```

/ APPLICANT: Kmiec, Eric B.
/ APPLICANT: Gamper, Howard B.
/ APPLICANT: Rice, Michael C.
/ TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
/ TITLE OF INVENTION: Targeted Oligonucleotides
/ FILE REFERENCE: Napro-4
/ CURRENT APPLICATION NUMBER: US/09/818,875
/ CURRENT FILING DATE: 2001-03-27
/ PRIOR APPLICATION NUMBER: US 60/192,176
/ PRIOR FILING DATE: 2000-03-27
/ PRIOR APPLICATION NUMBER: US 60/192,179
/ PRIOR FILING DATE: 2000-03-27
/ PRIOR APPLICATION NUMBER: US 60/208,538
/ PRIOR FILING DATE: 2000-06-01
/ PRIOR APPLICATION NUMBER: US 60/244,989
/ PRIOR FILING DATE: 2000-10-30
/ NUMBER OF SEQ ID NOS: 4385
/ SOFTWARE: Friedman macro Napro4
/ SEQ ID NO 4256
/ LENGTH: 121
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-09-818-875-4256

```

	Query Match	3.2%	Score 47.6;	DB 9;	Length 121;
	Best Local Similarity	62.7%;	Pred. No. 0.023;		
	Matches	74;	Conservative 0;	Mismatches 44;	Indels 0; Gaps 0;
QY	677	TGTTTGTATCTC	GGTTTCGGATCTGGT	TGCGGTGTCTACACCAAAAGGACCA	TTCAGAT 736
Db	4	TTTATGTTTCT	TTTTTCTAGATTAGT	GGCTGTTTGTCTCGAAAGGTC	CACATTCGTA 63
QY	737	ATTTGGTGGAACT	CCACAGGAGAGAAAC	GAGCCCAATTTTCCGGCGCTGATTTATTC	794
Db	64	TGCTGTTGAAACAG	CTCAGGAGAGAAAT	GTAAACGCTTTTTCAGCTCTCATTTACTC	121

Search completed: July 15, 2003, 07:10:45
Job time : 491 secs

